



## CHIRALPAK AD

### Instruction Sheet

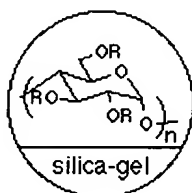
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**CAUTION :** Some of the most popular eluents for HPLC (such as acetone, acetonitrile, chloroform, DMF, DMSO, ethyl acetate, water, methanol, methylene chloride, and THF) remaining in your HPLC system may destroy this column. *Be careful not to connect the column to your HPLC system before the system is completely flushed with the appropriate eluent .* Please read this instruction sheet completely before using this column.

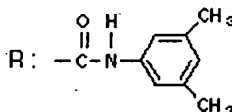
#### Column Description:

Column Size: 250 x 4.6 mm (L x I.D.)

Packing Composition:



Amylose tris(3,5-dimethylphenyl carbamate)  
coated on a 10 $\mu$ m silica-gel substrate



This column has been pre-tested before packaging. Test parameters and results, as well as the Column Lot Number are included on a separate (enclosed) page.

#### Operating Restrictions :

Flow Direction: As indicated by arrow on column label

Flow Rate: Maintain flow rate that will result in column pressures of less than 430 psi (30 kg/cm<sup>2</sup>)

Typical flow rate is 1.0 ml/min.; DO NOT EXCEED 1.5 ml/min.

Temperature: 0 C - 40 C.

Pressure: 700 psi, MAXIMUM; less than 430 psi is recommended for maximum column life.

**Recommended Operating Procedure :** - Sample/eluent solution should be filtered through a 0.45  $\mu$ m membrane filter. The use of a guard column is recommended for maximum column life.

- Suitable Mobile Phases include:

- Hexane/2-Propanol (100/0 to 0/100 v/v) Typical Mobile Phase used is Hexane/2-Propanol (90/10 v/v).

- Hexane/Ethanol (100/0 to 85/15 v/v), (40/60 to 0/100 v/v)

(NOTE: The range 85/15 to 40/60 (v/v) may adversely affect baseline stability.)

- Suitable Mobile Phase Modifiers include N,N-Diethylamine for a basic sample, and Trifluoroacetic acid for an acidic sample.

(NOTE: Minimize use of the modifier. Typical use is 0.1%; *maximum* 0.5%)

Notes: 1. Retention time is generally shorter with Ethanol than with 2-Propanol.

1. Retention time is generally shorter with a higher alcohol content.
2. If your sample is basic and shows a considerable tailing of the elution peaks, Diethylamine may be added (less than 0.5% (typically, 0.1%): please see above).
3. The use of other solvents is possible, but effectiveness and compatibility *cannot be guaranteed*. Use of alternative solvents may destroy this column. *Please contact us for assistance before trying other solvents.*

**Maintenance** : The mobile phase should be displaced with Storage Solvent (Hexane / 2-Propanol = 9 / 1) when stored more than a week.

When washing is required, use EtOH at 0.5ml/min for 3 hours.

**Important Notice :**

- **STRONGLY BASIC COMPOUNDS MUST BE AVOIDED**, because they are likely to damage the silica gel used in this column.

- **This instruction is not applicable to any other DAICEL Columns.**

- **If you have questions** about the use of this column, or encounter problems in its use, please E-mail for assistance. Operation of this column in accordance with the guidelines outlined here will result in a long column life.

- For guidance concerning the selection of DAICEL columns, please refer to the publication , available from us.

**CHIRALPAK** is a registered trademark of **DAICEL CHEMICAL INDUSTRIES, LTD.**

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